

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

(37 CFR 1.98(b))

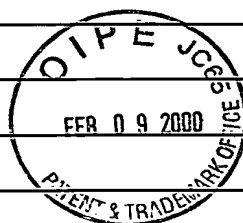
APPLICANT  
Nobuyuki ISHIWATA et al.

FILING DATE  
December 3, 1998

GROUP  
2754

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						



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**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

		DOCUMENT NO.	PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION YES NO
Wsk	AL	7-262520	10/95	Japan	—	—	NO
Wsk	AM	9-288807	11/97	Japan with Eng- lish Abstract	—	—	
Wsk	AN	11-213351	8/99	Japan	—	—	NO
	AO						
	AP						

**OTHER DOCUMENTS (including Author, Title, Date, Relevant Pages, Place of Publication)**

Wsk	AR	"Spin Valve Read Head with Fe/Al2O3/Fe/NiFe Tunneling Junction", pp. 97-98, IBM Technical Disclosure Bulletin, Vol. 40, No. 4, April 19, 1997.
	AS	
	AT	

EXAMINER

W. Kly

DATE CONSIDERED

4-17-00

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.